CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Ref: CACE/BBMP/EE/DIV/YNK/PMC/05/2023-24

Name of Work : "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.

Name of Client	:	:	**Executive Engineer, Yelahanka Division, BBMP, Bangalore.**
Contractor/Agency	:	:	**Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**
Total Cost	:	:	Rs. 23.23 Lakhs
Date of Inspection	:	:	19.06.2023
Status of Bill	:	:	1st and Final
In the Presence of	:	:	(a) **Assistant Engineer Ward No.05 , BBMP, Bangalore.**
	:	:	(b) **Mr. Prajwal Gowda H,** Engineer M/s.Civil Aim Consultants and Engineers

Sl.No	Description of the Item	Qty	Unit	Comments / observations
1	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material to the appropriate disposal area as per direction of Engineer-in-charge(PWD SR 2021-22 Vol-2 Pg 165 item No.19.27.2)	12.18	Sqm	Work done up to the billed quantity and Quality is satisfactory
2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking to the appropriate disposal area as per direction of Engineer in-charge.(PWD SR 2021-22 Vol-2 Pg 164 item No.19.12.2)	2.72	Sqm	Work done up to the billed quantity and Quality is satisfactory
3	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge.(PWD SR 2021-22 Vol-2 Pg 163 item No.19.7.3)	7.51	Sqm	Work done up to the billed quantity and Quality is satisfactory

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Authorised Signatory

01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
aiah Layout, Nagasandra, Bangalore - 560 073.
9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

Sl.No	Description of the Item	Qty	Unit	Comments / observations
4	Demolishing cement concrete manually/ by mechanical means including disposal of material to the appropriate disposal area as per direction of Engineer-in-charge(PWD SR 2021-22 Vol-2 Pg 163 item No.19.2.1)	137.42	Sqm	Work done up to the billed quantity and Quality is satisfactory
5	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking to the appropriate disposal area as per direction of Engineer-in-charge.(PWD SR 2021-22 Vol-2 Pg 165 item No.19.19)	425.04	Kg	Work done up to the billed quantity and Quality is satisfactory
6	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting &	36.87	Cum	Work done up to the billed quantity and Quality is satisfactory
7	Poviding and Filling foundation with granite/ trap broken metal 100mm and down size with approval sand including hand packing ramming watering including cost of all materials and labour with all lead and lift complete as per specifications .Specification No.(PWD SR 2021-22 Vol-2 Corrigenda item No.6.4)	0.74	Cum	Work done up to the billed quantity and Quality is satisfactory
8	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregate(PWD SR 2021-	5.40	Cum	Work done up to the billed quantity and Quality is satisfactory

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Sl.No	Description of the Item	Qty	Unit	Comments / observations
9	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)Mix (PWD SR 2021-22 Vol-1 Pg 16 item No.2.4.1)	14.54	Cum	Work done up to the billed quantity and Quality is satisfactory
10	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) 2.5.2 M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	0.17	Cum	Work done up to the billed quantity and Quality is satisfactory
11	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.	1513.84	Kg	Work done up to the billed quantity and Quality is satisfactory
12	Providing and Fixing Pre-cast covering Slab 100mm thick made out of CC Jelly 20mm Down Size with Steel reinforcement including form work curing including cost of all materials labour hire charges of machinery loading unloading lead and lift transportation etc complete as per Engineer incharge (Approved Data Rate)	12.60	Sqm	Work done up to the billed quantity and Quality is satisfactory

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Sl.No	Description of the Item	Qty	Unit	Comments / observations
13	Providing and Fixing Pre-cast covering Slab 230mm thick made out of CC Jelly 20mm Down Size with Steel reinforcement including form work curing including cost of all materials labour hire charges of machinery loading unloading lead and lift	4.95	Sqm	Work done up to the billed quantity and Quality is satisfactory
14	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.Mix 1:2:4 M15 (The cost of steel reinforcement & formwork to be paid separately)	20.77	Cum	Work done up to the billed quantity and Quality is satisfactory
15	Earth work in surface excavation for stripping, seating of bund, Road way, by manual means for lowering & leveling the ground for all works other than foundation & depth in all kinds of soil not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work (PWD SR 2021-22 Vol-1 Pg 8 item No.1.12)	62.31	Cum	Work done up to the billed quantity and Quality is satisfactory

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16	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work. (P.No. 7, I.No. 1.8 of PWD & CSR VOL-1 SR 2021-22)	20.77	Cum	Work done up to the billed quantity and Quality is satisfactory
17	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)2.1.1 Mix 1:5:10 (M 5.0) Using 40 mm nominal size graded crushed coarse aggregates	31.16	Cum	Work done up to the billed quantity and Quality is satisfactory

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18	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.	20.77	Cum	Work done up to the billed quantity and Quality is satisfactory
19	Providing and laying heavy duty cobble stones 60mmthick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its finallevel , including cost of materials, labour andUsage charges of machinery complete as per specifications.	207.70	Sqm	Work done up to the billed quantity and Quality is satisfactory

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Sl.No	Description of the Item	Qty	Unit	Comments / observations
20	Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its finallevel , including cost of materials, labour andUsage charges of machinery complete as per specifications.	207.70	Sqm	Work done up to the billed quantity and Quality is satisfactory
21	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum.(Tipper 14 m3)(PWD SR 2021-22 Vol-III Pg 3 item No.1.1C)	461.91	Cum	Work done up to the billed quantity and Quality is satisfactory
22	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km(PWD SR 2021-22 Vol-III Pg 3 item No.1.4 A)	591.24	Tonne K	Work done up to the billed quantity and Quality is satisfactory
23	Fabricating .Providing and erecting in position Hot dip galvanised Gate.Using 72X72X4.8MM Sq.GI pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile , 20mm hot dip galvinsed sq.road for verticles at 150mm C/C,as shown in the drawing including providing hot dip galvanised forged Ornamental design in btn Sq.road and heads at top, middle,and bottom.Intermediate supports 75x12mm and 50x6 mm arch bend to hot dip galavised Flats .The work is inclusiveof thoughing GI flat GI sq.rods placing welding aal joints including griding,finishing metal putty painting two coats enamel painting .the rate is inclusive of all materials like GI sq.pipe, GI sq.rods,GI Forged designsetc... heavy duty hinges are made out of 75MM Solid Sq,block assembled with 20mm dia bearing in three places for each flop heavy duty locking arrangements at tow places including cost of labour, painting,erecting charges using hoist pulley cranes with all lead lift charges loading transportation unloading Scaffolding charges for succesfull completion of the work as per directions of the Engineer in charge(Data Rate)	14.17	Sqm	Work done up to the billed quantity and Quality is satisfactory

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Sl.No	Description of the Item	Qty	Unit	Comments / observations
24	Providing and placing on terrace ,Polythene water storage tanks as per IS12701 Marked with cover and suitable locking arrangement and make necessary holes for inlet,outlet and overflow pipes but without fittings and the base supports for tank (For 1000 litres capacity)(PWD SR 2021-22 Vol-2 Corrigenda Sl.No.12 item No.13.34)	3000.00	Ltr	Work done up to the billed quantity and Quality is satisfactory
25	Providing and fixing M.S. grills of required pattern in frames of win dows etc. with M.S. flats, square or round bars etc.including priming coat with approved steel primer all complete. Fixed to steel window by welding(PWD SR 2021-22 Vol-2 Pg 85 item No.11.34 A)	1166.31	Kg	Work done up to the billed quantity and Quality is satisfactory
26	Providing and laying Cement concrete flooring 40 mm thick with 20 mm nominal size stone aggregate using 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry complete(PWD SR 2021-22 Vol-2 Pg 59 item No.9.1)	19.36	Sqm	Work done up to the billed quantity and Quality is satisfactory
27	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work	1.94	Cum	Work done up to the billed quantity and Quality is satisfactory
28	Supply and Delivery of Centrifugal pumpset at site brand new best make and with discharge duty confirming to ISI standards and its latest amendments 2 HP Size 50x40 Head 22M Discharge 186LPM	2.00	Each	Work done up to the billed quantity and Quality is satisfactory
29	Green Soul Seuol-X Mid Back Ergonomic Chair (Home Office, WFH Moulded Foam Extra Comfort Faabric Office Executive Chair Data Rate Complete as per Specifications Specification and direction of site engineer in charge	11.00	No,s	Work done up to the billed quantity and Quality is satisfactory

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Sl.No	Description of the Item	Qty	Unit	Comments / observations
30	Supplying steel Almirah with shelves & locker 6.6 feet 18/20 gauge of size 78" x 36" x 19" etc including of all taxes as per approved by engineer in charge (Data Rate) Complete as per specifications Specifiaction and direction of site engineer in charge	7.00	No,s	Work done up to the billed quantity and Quality is satisfactory
31	Supplying of ....feet PVC Batten with integrated LED tube...W with high quality diffuser with life of 25000 burning hours & 70% lumen maintenance with CRI> 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved . 2 years Warranty against any manufacturing defect working under standard electrical condition LED light fitting 1x2' - 9/10 W	17.00	Each	Work done up to the billed quantity and Quality is satisfactory

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